

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/670,119DATE: 12/10/96
TIME: 16:41:25

INPUT SET: SI4311.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information:
4
5 (i) APPLICANT: NG, GORDON Y K
6 SEEMAN, PHILIP
7 GEORGE, SUSAN R
8 O'DOWD, BRIAN
9
10 (ii) TITLE OF INVENTION: RECEPTOR AND TRANSPORTER ANTAGONISTS
11
12 (iii) NUMBER OF SEQUENCES: 63
13
14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: TESTA, HURWITZ & THIBEAULT, LLP
16 (B) STREET: HIGH STREET TOWER, 125 HIGH STREET
17 (C) CITY: BOSTON
18 (D) STATE: MASSACHUSETTS
19 (E) COUNTRY: USA
20 (F) ZIP: 02110
21
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
27
28 (vi) CURRENT APPLICATION DATA:
29 (A) APPLICATION NUMBER: US 08/670,119
30 (B) FILING DATE: 25-JUN-1996
31 (C) CLASSIFICATION:
32
33 (viii) ATTORNEY/AGENT INFORMATION:
34 (A) NAME: TWOMEY, MICHAEL J
35 (B) REGISTRATION NUMBER: 38,349
36 (C) REFERENCE/DOCKET NUMBER: SIM-001 (7434/2)
37
38 (ix) TELECOMMUNICATION INFORMATION:
39 (A) TELEPHONE: (617) 248-7000
40 (B) TELEFAX: (517) 248-7100

41
42
43 (2) INFORMATION FOR SEQ ID NO:1:
44
45 (i) SEQUENCE CHARACTERISTICS:
46 (A) LENGTH: 23 amino acids

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47 (B) TYPE: amino acid
48 (C) STRANDEDNESS: single
49 (D) TOPOLOGY: linear
50
51 (iii) MOLECULE TYPE: peptide
52
53
54
55
56 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
57
58 Ala Thr Leu Leu Thr Leu Leu Ile Ala Val Ile Val Phe Gly Asn Val
59 1 5 10 15
60
61 Leu Val Cys Met Ala Val Ser
62 20
63
64 (2) INFORMATION FOR SEQ ID NO:2:
65
66 (i) SEQUENCE CHARACTERISTICS:
67 (A) LENGTH: 26 amino acids
68 (B) TYPE: amino acid
69 (C) STRANDEDNESS: single
70 (D) TOPOLOGY: linear
71
72 (iii) MOLECULE TYPE: peptide
73
74
75
76
77 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
78
79 Leu Ile Val Ser Leu Ala Val Ala Asp Leu Leu Val Ala Thr Leu Val
80 1 5 10 15
81
82 Met Pro Trp Val Val Tyr Leu Glu Val Val
83 20 25
84
85 (2) INFORMATION FOR SEQ ID NO:3:
86
87 (i) SEQUENCE CHARACTERISTICS:
88 (A) LENGTH: 22 amino acids
89 (B) TYPE: amino acid
90 (C) STRANDEDNESS: single
91 (D) TOPOLOGY: linear
92
93 (iii) MOLECULE TYPE: peptide

94
95
96
97
98 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
99

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100 Ile Val Phe Thr Leu Asp Val Met Met Cys Thr Ala Ser Ile Leu Asn
101 1 5 10 15
102
103 Leu Cys Ala Ile Ser Ile
104 20
105

106 (2) INFORMATION FOR SEQ ID NO:4:

107
108 (i) SEQUENCE CHARACTERISTICS:
109 (A) LENGTH: 23 amino acids
110 (B) TYPE: amino acid
111 (C) STRANDEDNESS: single
112 (D) TOPOLOGY: linear
113

114 (ii) MOLECULE TYPE: peptide
115

116 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

117
118 Val Thr Val Met Ile Ser Ile Val Trp Val Leu Ser Phe Thr Ile Ser
119 1 5 10 15
120
121 Cys Pro Leu Leu Phe Gly Leu
122 20
123

124 (2) INFORMATION FOR SEQ ID NO:5:

125
126 (i) SEQUENCE CHARACTERISTICS:
127 (A) LENGTH: 24 amino acids
128 (B) TYPE: amino acid
129 (C) STRANDEDNESS: single
130 (D) TOPOLOGY: linear
131

132 (ii) MOLECULE TYPE: peptide
133

134
135
136
137
138 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
139

140 Pro Ala Phe Val Val Tyr Ser Ser Ile Val Ser Phe Tyr Val Pro Phe
141 1 5 10 15
142
143 Ile Val Thr Leu Leu Val Tyr Ile
144 20
145

146 (2) INFORMATION FOR SEQ ID NO:6:

147
148 (i) SEQUENCE CHARACTERISTICS:
149 (A) LENGTH: 23 amino acids
150 (B) TYPE: amino acid
151 (C) STRANDEDNESS: single
152 (D) TOPOLOGY: linear

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153
154 (ii) MOLECULE TYPE: peptide
155
156
157
158
159 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
160 Met Leu Ala Ile Val Leu Gly Val Phe Ile Ile Cys Trp Leu Pro Phe
161 1 5 10 15
163 Phe Ile Thr His Ile Leu Asn
164 20
165
166
167 (2) INFORMATION FOR SEQ ID NO:7:
168
169 (i) SEQUENCE CHARACTERISTICS:
170 (A) LENGTH: 24 amino acids
171 (B) TYPE: amino acid
172 (C) STRANDEDNESS: single
173 (D) TOPOLOGY: linear
174
175 (ii) MOLECULE TYPE: peptide
176
177
178 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
179 Val Leu Tyr Ser Ala Phe Thr Trp Leu Gly Tyr Val Asn Ser Ala Val
180 1 5 10 15
182 Asn Pro Ile Ile Tyr Thr Thr Phe
183 20
184
185
186 (2) INFORMATION FOR SEQ ID NO:8:
187
188 (i) SEQUENCE CHARACTERISTICS:
189 (A) LENGTH: 443 amino acids
190 (B) TYPE: amino acid
191 (C) STRANDEDNESS: single
192 (D) TOPOLOGY: linear
193
194 (ii) MOLECULE TYPE: protein
195
196 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
197
198 Met Asp Pro Leu Asn Leu Ser Trp Tyr Asp Asp Asp Leu Glu Arg Gln
199 1 5 10 15
200
201 Asn Trp Ser Arg Pro Phe Asn Gly Ser Asp Gly Lys Ala Asp Arg Pro
202 20 25 30
203
204 His Tyr Asn Tyr Tyr Ala Thr Leu Leu Thr Leu Leu Ile Ala Val Ile
205 35 40 45

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206
207 Val Phe Gly Asn Val Leu Val Cys Met Ala Val Ser Arg Glu Lys Ala
208 50 55 60
209
210 Leu Gln Thr Thr Asn Tyr Leu Ile Val Ser Leu Ala Val Ala Asp
211 65 70 75 80
212
213 Leu Leu Val Ala Thr Leu Val Met Pro Trp Val Val Tyr Leu Glu Val
214 85 90 95
215
216 Val Gly Glu Trp Lys Phe Ser Arg Ile His Cys Asp Ile Phe Val Thr
217 100 105 110
218
219 Leu Asp Val Met Met Cys Thr Ala Ser Ile Leu Asn Leu Cys Ala Ile
220 115 120 125
221
222 Ser Ile Asp Arg Tyr Thr Ala Val Ala Met Pro Met Leu Tyr Asn Thr
223 130 135 140
224
225 Arg Tyr Ser Ser Lys Arg Arg Val Thr Val Met Ile Ser Ile Val Trp
226 145 150 155 160
227
228 Val Leu Ser Phe Thr Ile Ser Cys Pro Leu Leu Phe Gly Leu Asn Asn
229 165 170 175
230
231 Ala Asp Gln Asn Glu Cys Ile Ile Ala Asn Pro Ala Phe Val Val Tyr
232 180 185 190
233
234 Ser Ser Ile Val Ser Phe Tyr Val Pro Phe Ile Val Thr Leu Leu Val
235 195 200 205
236
237 Tyr Ile Lys Ile Tyr Ile Val Leu Arg Arg Arg Arg Lys Arg Val Asn
238 210 215 220
239
240 Thr Lys Arg Ser Ser Arg Ala Phe Arg Ala His Leu Arg Ala Pro Leu
241 225 230 235 240
242
243 Lys Gly Asn Cys Thr His Pro Glu Asp Met Lys Leu Cys Thr Val Ile
244 245 250 255
245
246 Met Lys Ser Asn Gly Ser Phe Pro Val Asn Arg Arg Arg Val Glu Ala
247 260 265 270
248
249 Ala Arg Arg Ala Gln Glu Leu Glu Met Glu Met Leu Ser Ser Thr Ser
250 275 280 285
251
252 Pro Pro Glu Arg Thr Arg Tyr Ser Pro Ile Pro Pro Ser His His Gln
253 290 295 300
254
255 Leu Thr Leu Pro Asp Pro Ser His His Gly Leu His Ser Thr Pro Asp
256 305 310 315 320
257
258 Ser Pro Ala Lys Pro Glu Lys Asn Gly His Ala Lys Asp His Pro Lys